

Amendment to the Claims

Claims 1-43 (Cancelled)

44. (New) A method of browsing content maintained in a page-rendered language without the use of a page-rendering browser application on a mobile communication device, comprising:

generating a request for content at the mobile communication device and transmitting the request to a gateway coupling the mobile communication device to a data network;

forwarding the content request from the gateway to a server on the data network where the content is stored in the page-rendered language;

returning the requested page-rendered content from the server to the gateway;

translating the page-rendered content into a programmatic language and generating a corresponding executable program at the gateway; and

forwarding the executable program to the mobile communication device which executes the program in order to browse the requested content.

45. (New) The method of claim 44, further comprising:

compressing the executable program prior to forwarding it to the mobile communication device.

46. (New) The method of claim 45, further comprising:

providing a byte code generator at the gateway; and

executing the byte code generator to compress the translated programmatic language into byte codes.

47. (New) The method of claim 44, wherein the request for content is a Uniform Resource Locator request which is transmitted to the gateway using the Hypertext Transfer Protocol.

48. (New) The method of claim 44, wherein the page-rendered language is HTML, HDML, XML or WML.

49. (New) The method of claim 44, wherein the page-rendered content returned from the server to the gateway is one of a plurality of content types, the method further comprising:

providing a plurality of content translators at the gateway, each of the plurality of content translators translating page-rendered content of a particular content type into a common type of programmatic language;

determining the content type of the page-rendered content returned from the server to the gateway; and

selecting and executing one of the plurality of content translators at the gateway in correspondence with the determined type of content in order to translate the page-rendered content into the programmatic language.

50. (New) The method of claim 44, wherein the mobile communication device is coupled to the gateway via a wireless data network.

51. (New) The method of claim 44, wherein the programmatic language is a virtual machine language, the method further comprising:

providing a virtual machine at the mobile communication device for executing programs coded in the virtual machine language.

52. (New) The method of claim 44, further comprising:

providing a file explorer at the mobile communication device, the file explorer generating the request for content and storing the executable program forwarded from the gateway.

53. (New) The method of claim 52, further comprising:

generating a second request for content at the mobile communication device using the file explorer;

determining if an executable program representing the requested content is stored at the mobile communication device;

if the executable program is stored at the mobile communication device, then executing the program in order to browse the requested content;

if the executable program is not stored at the mobile communication device, then transmitting the second request for content to the gateway.

54. (New) The method of claim 44, further comprising:

verifying the executable program at the mobile communication device prior to executing the program.

55. (New) A system for browsing web pages maintained in a page-rendering language at a plurality of Internet web-servers, comprising:

a wireless gateway system coupling a wireless data network to the Internet, the wireless gateway system including:

an interface component configured to receive web page requests from the wireless data network and to forward the web page requests to the plurality of Internet web-servers, the plurality of Internet web-servers responding to the web page requests and transmitting the requested web pages to the wireless gateway system; and

a translation component for translating the received web pages from the page-rendering language into a programmatic language that is capable of being executed; and

a wireless mobile communication device configured to transmit web page requests to the wireless gateway system via the wireless data network and to receive translated web pages in the programmatic language in response thereto, the wireless mobile communication device including a program interpreter for executing programs formatted in the programmatic language.

56. (New) The system of claim 55, wherein the wireless gateway system further comprises a data compressor for compressing the translated web pages prior to transmitting them to the wireless mobile communication device.

57. (New) The system of claim 56, wherein the data compressor includes a byte code generator for converting the translated web pages into a compressed byte code format.

58. (New) The system of claim 55, wherein the page-rendered language is HTML, HDML, XML or WML.

59. (New) The system of claim 55, wherein the page-rendered web pages received from the Internet web-servers are formatted using one of a plurality of content types, the system further comprising:

a plurality of translation components at the wireless gateway system, each of the plurality of translation components configured to translate page-rendered content of a particular content type into a common type of programmatic language;

wherein the wireless gateway system determines the content type of the page-rendered web pages received from the Internet web-servers and executes one of the plurality of translation components in correspondence with the determined content type in order to translate the web-page into the programmatic language.

60. (New) The system of claim 55, wherein the programmatic language is a virtual machine language, the system further comprising a virtual machine operating at the wireless mobile communication device for executing programs coded in the virtual machine language.

61. (New) The system of claim 55, further comprising a file explorer component operating at the wireless mobile communication device for generating the web page requests for web pages and for storing the translated web pages received from the wireless gateway system.

62. (New) The system of claim 61, wherein the file explorer component generates a second web page request and determines if a translated web page corresponding to the requested web page is stored at the wireless mobile communication device, and if so, then the program interpreter executes the stored translated web page.

63. (New) The system of claim 55, wherein the wireless mobile communication device verifies the programs formatted in the programmatic language prior to execution.

64. (New) A method of browsing web pages without the use of a web browser application capable of rendering web pages maintained in a page-rendered language format, comprising:

transmitting a web page request to a web server that maintains web pages in the page-rendered language;

forwarding the requested web page to a translation component;

translating the requested web page from the page-rendered language format into a programmatic language format that is capable of being executed by a program interpreter; and

executing the translated web page in the programmatic language format using the program interpreter in order to browse the web page.

65. (New) A mobile device for use with an information system that stores pages of information formatted in a page-rendering language, the information system including a plurality of information sources that store the pages of information formatted in the page-rendering language, and a translation component that translates the pages of information from the page rendering language format into a programmatic language format, the mobile device comprising:

a file explorer component for generating a request for an information page stored in the information system; and

a program interpreter for executing a program returned by the information system in response to the generated request, wherein the program is generated by the translation component in the programmatic language format and represents the requested information page.

66. (New) The mobile device of claim 65, wherein the information page is a web page formatted in HTML, HDML, WML or XML.

67. (New) The mobile device of claim 65, wherein the program returned by the information system is compressed, the mobile device comprising a decompression component for decompressing the compressed program.

68. (New) The mobile device of claim 67, wherein the program is compressed using a byte code generator.

69. (New) The mobile device of claim 65, wherein the program interpreter is a virtual machine capable of executed programs coded in a virtual machine language.

70. (New) The mobile device of claim 69, wherein the virtual machine is a JAVA virtual machine.

71. (New) The mobile device of claim 65, wherein the file explorer component is operable to:

generate a second request for an information page;

determine if an executable program representing the requested information page is stored at the mobile device;

execute the stored program in order to browse the information page if the executable program is stored at the mobile device; and

transmitting the second request for the information page to the information system if the executable program is not stored at the mobile device.

72. (New) The mobile device of claim 65, further comprising a verification component for verifying the executable program prior to execution.

73. (New) A method of browsing page-rendered documents on a mobile device without the use of a page-rendering browser application, comprising:

generating a request for a page-rendered document at the mobile device;

transmitting the request from the mobile device to a gateway system having a translation component;

forwarding the request from the gateway system to a server where the requested page-rendered document is stored;

transmitting the requested page-rendered document from the server to the gateway system;

translating the requested page-rendered document into a programmatic language that is capable of being executed;

forwarding the translated document in the programmatic language to the mobile device; and

executing the programmatic language of the translated document using a program interpreter at the mobile device in order to browse the page-rendered document without the use of a page-rendering browser.

74. (New) A JAVA-based system for browsing HTML formatted content on the Internet, comprising:

a gateway system for receiving requests for HTML formatted content and for fetching the HTML formatted content from a plurality of Internet servers, the gateway system having a translation component for converting HTML formatted content into JAVA programs; and

a mobile device having a file explorer component for transmitting a request for HTML formatted content to the gateway system and for receiving a JAVA program from the gateway system in return; and a JAVA virtual machine engine for executing the JAVA program in order to browse the HTML formatted content.